

CLAIMS

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3 1. A method including steps of
4 receiving from a client a request for a web page;
5 updating a prediction map in response to said request and a referring web page for
6 said request, said prediction map associating said web page with at least one next page;
7 maintaining for said web page a set of templates, wherein said set of templates in-
8 clude at least one template for said at least one next page; and
9 sending said template for at least one next page, and delta information for said
10 web page to said client.

11 2. A method as in claim 1, including the step of integrating said template
12 with said delta information and presenting said web page to said client.

13 3. A method as in claim 1, wherein said referring page includes a reference
14 to an object previously requested by said client.
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16 4. A method as in claim 1, also including a step of sending a hint to said cli-
17 ent, wherein said hint includes a suggestion to download at least one said next page or the tem-
18 plate for that next page.
19

20 5. A method as in claim 1, including steps of
21 calculating new delta information for said web page; and
22 conditionally building a new template in response to said new delta information;
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1 wherein said new template is built when said new delta information exceeds a selected threshold.

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3 6. A method as in claim 1, including steps of
4 determining the number of changes made to a set of selected objects; and
5 conditionally building a new template in response to said number of changes;

6 wherein said new template is built when said number of changes exceeds a selected threshold.

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8 7. A method as in claim 6, wherein, wherein said selected threshold includes
9 a reference to one or more of the following: object age, object size, object type and operator se-
10 lection.

11
12 8. An apparatus for predictive download of templates with delta encoding,
13 including
14 a delta encoder, wherein said delta encoder calculates delta information for a web
15 page and evaluates the size of the delta information with respect to a threshold value;
16 a template builder; wherein said template builder calculates a new template for
17 said web page if the delta information for said web page exceeds said threshold value; and
18 a predictor; wherein said predictor determines a set of next web pages from said
19 web page and interacts with said template builder to build template for each next web page.

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21 9. An apparatus as in claim 8, wherein said threshold value includes a refer-
22 ence to one or more of the following: object age, object size, object type and operator selection.

1 10. An apparatus as in claim 8, wherein said template builder calculates at
2 least one template for at least one next web page.

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4 11. An apparatus as in claim 8, wherein said predictor generates a hint,
5 wherein said hint includes suggestions to a client what to download next.

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7 12. An apparatus as in claim 11, wherein said hint includes URLs of tem-
8 plates for likely next pages.

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10 13. An apparatus as in claim 11, wherein said hint includes information for
11 storing said template in said a client cache.

12
13 14. A memory, storing information, including instructions, said instructions
14 executable by a processor, said instructions including

15 calculating delta information for a web page and evaluating the size of the delta
16 information with respect to a threshold value;

17 calculating a template for said web page if said delta information for said web
18 page exceeds said threshold value;

19 determining a set of next web pages from said web page;

20 building at least one new template associated with said next web page; and

21 sending a hint to a client, wherein said hint includes a suggestion what to down-
22 load.

1 15. A memory as in claim 14, wherein said threshold value includes a refer-
2 ence to one or more of the following: object age, object size, object type and operator selection.

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4 16. A memory as in claim 14, including an instruction for calculating at least
5 one template for at least one next web page.

6
7 17. A memory as in claim 14, including an instruction for generating a hint,
8 wherein said hint includes suggestions to a client what to download next.

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10 18. A memory as in claim 17, wherein said hint includes information for stor-
11 ing said template in said a client cache.